

Appl. No. 09/821,953
Atty. Docket No. 7973MR
Resp. dated December 16, 2005
Reply to Final Office Action of February 10, 2005
Customer No. 27752

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-37 (*Cancelled*)

Claim 38. (*Currently Amended*) A cleaning sheet comprising:

- (a) a macroscopically three-dimensional substrate consisting essentially of a single layer of nonwoven material having a first outward surface and a second outward surface, wherein at least one of said outward surfaces has a macroscopic three dimensional texture, said macroscopic three dimensional texture being defined by peaks and valleys wherein said textured outward surface has an Average Height Differential of at least about 0.5 mm, wherein said cleaning sheet does not include any additional layer of fibrous material; and
 - (b) a polymeric additive selected from the group consisting of pressure sensitive adhesive, tacky polymer, and mixtures thereof;
- wherein said polymeric additive is incorporated onto said substrate at a level of from about 0.1 g/m² to about 10.0 g/m².

Claim 39. (*Original*) The cleaning sheet of Claim 38, wherein said polymeric additive is incorporated onto said substrate at a level of from about 0.3 g/m² to about 6.0 g/m².

Claim 40. (*Original*) The cleaning sheet of Claim 39, wherein said polymeric additive is incorporated onto said substrate at a level of from about 0.5 g/m² to about 4.0 g/m².

Claim 41. (*Original*) The cleaning sheet of Claim 38, wherein said polymeric additive is a pressure sensitive adhesive comprising:

- (a) an adhesive polymer;
- (b) optionally, a tackifying resin;
- (c) optionally, a plasticizer; and

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- (d) optionally, a component selected from the group consisting of diluents, stabilizers, antioxidants, colorants, fillers, and mixtures thereof.

Claim 42. (*Original*) The cleaning sheet of Claim 38, wherein said polymeric additive is a tacky polymer selected from the group consisting of: polyisobutylene polymers, alkyl methacrylate polymers, polyalkyl acrylates, and mixtures thereof.

Claims 43-64. (*Cancelled*)

Claim 65. (*Previously Presented*) The cleaning sheet of claim 38 wherein said textured outward surface has an Average Height Differential of at least about 1 mm.

Claim 66. (*Previously Presented*) The cleaning sheet of claim 65 wherein said textured outward surface has an Average Height Differential of at least about 1.5 mm

Claim 67. (*Previously Presented*) The cleaning sheet of claim 38 wherein said textured outward surface has a Surface Topography Index of from about 0.01 to about 10.

Claim 68. (*Previously Presented*) The cleaning sheet of claim 67 wherein said textured outward surface has a Surface Topography Index of from about 0.1 to about 5.

Claim 69. (*Previously Presented*) The cleaning sheet of claim 38 wherein said textured outward surface has an Average Peak to Peak distance of at least about 1 mm.

Claim 70. (*Previously Presented*) The cleaning sheet of claim 69 wherein said textured outward surface has an Average Peak to Peak Distance of from about 1 to about 20 mm.

Claim 71. (*Previously Presented*) The cleaning sheet of claim 38 wherein said substrate comprises at least one layer of a nonwoven material.

Claims 72-73. (*Cancelled*)

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- Claim 74. (*Previously Presented*) The cleaning sheet of claim 90 wherein said Average Height Differential is at least about 0.4 mm.
- Claim 75. (*Previously Presented*) The cleaning sheet of claim 74 wherein said Average Height Differential is at least about 0.6 mm.
- Claim 76. (*Previously Presented*) The cleaning sheet of claim 75 wherein said raised regions have a rounded parallelogram shape in a plan view.
- Claim 77. (*Previously Presented*) The cleaning sheet of claim 90 wherein said recessed regions form a continuous pattern in the X-Y dimension.
- Claim 78. (*Previously Presented*) The cleaning sheet of claim 77 wherein said continuous recessed pattern includes channels having a width from about 0.25 mm to about 10 mm.
- Claim 79. (*Previously Presented*) The cleaning sheet of claim 78 wherein the width of said channels is from about 1 mm to about 8 mm.
- Claim 80. (*Previously Presented*) The cleaning sheet of claim 77 wherein said polymeric additive is applied to said continuous pattern.
- Claim 81. (*Previously Presented*) The cleaning sheet of claim 90 wherein said outward surface including said raised regions and said recessed regions forms a working face of said cleaning sheet.
- Claim 82. (*Previously Presented*) The cleaning sheet of claim 81 wherein said recessed regions of said working face form a continuous pattern in the X-Y dimension.
- Claim 83. (*Previously Presented*) The cleaning sheet of claim 82 wherein said polymeric additive is applied to said continuous pattern.

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Claim 84. (*Cancelled*)

Claim 85. (*Previously Presented*) The cleaning sheet of claim 83 wherein said textured outward surface has an Average Height Differential of at least about 0.4 mm.

Claim 86. (*Previously Presented*) The cleaning sheet of claim 85 wherein said textured outward surface has an Average Height Differential of at least about 0.6 mm.

Claim 87. (*Previously Presented*) The cleaning sheet of claim 90 wherein said substrate comprises at least one layer of a nonwoven material.

Claim 88. (*Previously Presented*) The cleaning sheet of claim 81 wherein said cleaning sheet is folded such that said working face faces outwardly.

Claim 89. (*Previously Presented*) The cleaning sheet of claim 86 wherein said recessed regions form pockets for trapping large particulates present on a floor surface when said floor surface is wiped with said working face of said cleaning sheet.

Claim 90. (*Previously Presented*) A cleaning sheet comprising:

- (a) a macroscopically three-dimensional substrate comprising a non-apertured layer of nonwoven material, said non-apertured layer having a first outward surface and a second outward surface, wherein at least one of said outward surfaces has a macroscopic three dimensional texture including a non-random macroscopic pattern including discrete raised regions and recessed regions wherein said outward surface including said non-random macroscopic pattern has an Average Height Differential of at least about 0.2 mm; and
- (b) a polymeric additive selected from the group consisting of pressure sensitive adhesive, tacky polymer, and mixtures thereof;

wherein said polymeric additive is incorporated onto said substrate at a level of from about 0.1 g/m² to about 10.0 g/m².

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Claim 91. (*Previously Presented*) The cleaning sheet of Claim 90, wherein said polymeric additive is incorporated onto said substrate at a level of from about 0.3 g/m^2 to about 6.0 g/m^2 .

Claim 92. (*Previously Presented*) The cleaning sheet of Claim 91, wherein said polymeric additive is incorporated onto said substrate at a level of from about 0.5 g/m^2 to about 4.0 g/m^2 .

Claim 93. (*Previously Presented*) The cleaning sheet of Claim 90, wherein said polymeric additive is a pressure sensitive adhesive comprising:

- (e) an adhesive polymer;
- (f) optionally, a tackifying resin;
- (g) optionally, a plasticizer; and
- (h) optionally, a component selected from the group consisting of diluents, stabilizers, antioxidants, colorants, fillers, and mixtures thereof.

Claim 94. (*Previously Presented*) The cleaning sheet of Claim 90, wherein said polymeric additive is a tacky polymer selected from the group consisting of: polyisobutylene polymers, alkyl methacrylate polymers, polyalkyl acrylates, and mixtures thereof.

Claim 95. (*Previously Presented*) The cleaning sheet of claim 38 wherein one of said first and second outward surfaces comprises at least a first zone and a second zone wherein the level of polymeric additive of said first zone is greater than the level of polymeric additive of said second zone.

Claim 96. (*Previously Presented*) The cleaning sheet of claim 95 wherein said second zone is substantially free of said polymeric additive.

Claim 97. (*Previously Presented*) The cleaning sheet of claim 96 wherein the level of said polymeric additive in said first zone is from about 0.1 g/m^2 to about 5.0 g/m^2 .

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Claim 98. (*Previously Presented*) The cleaning sheet of claim 38 wherein said polymeric additive is applied non-uniformly across one of said first and second outward surfaces.

Claim 99. (*Previously Presented*) The cleaning sheet of claim 90 wherein one of said first and second outward surfaces comprises at least a first zone and a second zone and wherein the level of polymeric additive of said first zone is greater than the level of polymeric additive of said second zone.

Claim 100. (*Previously Presented*) The cleaning sheet of claim 99 wherein said second zone is substantially free of said polymeric additive.

Claim 101. (*Previously Presented*) The cleaning sheet of claim 100 wherein the level of said polymeric additive in said first zone is from about 0.1 g/m² to about 5.0 g/m².

Claim 103. (*Previously Presented*) A disposable cleaning sheet for cleaning a surface having particulate soil, said cleaning sheet comprising:

at least one layer of nonwoven material having a working face and a back face, wherein said working face comprises discrete raised regions and recessed regions wherein said recessed regions form a continuous pattern in the X-Y dimension surrounding said discrete raised regions wherein said continuous recessed pattern comprises channels having a width of between about 0.25 mm to about 10 mm and wherein said working face has an Average Height Differential of at least about 1 mm such that said discrete raised regions and said recessed regions form pockets on the surface of said working face for trapping and removing large particulates from said surface to be cleaned, said working face comprising a polymeric additive selected from the group consisting of pressure sensitive adhesive, tacky polymer, and mixtures thereof, said working face having at least a first zone and a second zone, wherein the level of polymeric additive of said first zone is greater than the level of polymeric additive of said second zone.

Claim 104. (*Previously Presented*) The disposable cleaning sheet of Claim 103 wherein the Average Height Differential of the working face is at least about 1.5 mm.

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Claim 105. (*Previously Presented*) The disposable cleaning sheet of claim 104 wherein said polymeric additive on said working face is present at a level of from about 0.1 g/m² to about 10.0 g/m².

Claim 106. (*Previously Presented*) The disposable cleaning sheet of Claim 105 wherein said polymeric additive is at a level of from about 0.3 g/m² to about 6.0 g/m².

Claim 107. (*Previously Presented*) The disposable cleaning sheet of claim 106 wherein said second zone is substantially free of said polymeric additive.

Claim 108. (*Previously Presented*) The disposable cleaning sheet of claim 107 wherein said polymeric additive is applied to said continuous pattern of said working face.

Claim 109. (*Previously Presented*) The disposable cleaning sheet of claim 108 wherein said cleaning sheet is folded such that said working face faces outwardly.

Claim 110. (*Previously Presented*) The disposable cleaning sheet of claim 109 wherein said cleaning sheet is made of a single layer of nonwoven material.

Claim 111. (*Previously Presented*) The disposable cleaning sheet of claim 109 wherein said cleaning sheet is a laminate of a plurality of layers.